

Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2016, Arizona

Year	Coal	Natural Gas <sup>a</sup>	Petroleum						Hydro-electric Power <sup>e,f</sup>	Biomass		Geo-thermal <sup>f</sup>	Solar <sup>f,i</sup>	Retail Electricity Sales	Net Energy <sup>f,j</sup>	Electrical System Energy Losses <sup>k</sup>	Total <sup>f,j</sup>
			Distillate Fuel Oil	HGL <sup>b</sup>	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total		Wood and Waste <sup>f,g</sup>	Losses and Co-products <sup>h</sup>						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million kWh	Million kWh							
1960	10	14	1,227	222	515	27	1,008	3,000	0	--	--	--	NA	1,481	--	--	--
1965	4	55	1,545	161	437	20	1,224	3,387	0	--	--	--	NA	3,331	--	--	--
1970	5	58	1,387	253	456	55	3,879	6,031	13	--	--	--	NA	4,751	--	--	--
1975	133	51	3,113	430	440	102	2,696	6,781	14	--	--	--	NA	6,868	--	--	--
1980	643	38	3,570	739	309	154	2,469	7,241	15	--	--	--	NA	8,003	--	--	--
1985	1,915	17	1,799	505	404	31	2,815	5,554	15	--	--	--	NA	8,457	--	--	--
1990	660	18	2,768	545	503	18	2,783	6,617	0	--	--	--	(s)	10,034	--	--	--
1995	657	28	3,590	745	410	69	3,504	8,317	0	--	--	--	(s)	11,992	--	--	--
1996	675	27	4,066	667	437	80	2,897	8,147	0	--	--	--	(s)	12,783	--	--	--
1997	702	28	4,229	331	457	14	3,156	8,187	0	--	--	--	(s)	13,253	--	--	--
1998	698	28	3,620	128	473	20	4,477	8,718	0	--	--	--	(s)	12,549	--	--	--
1999	684	27	4,157	116	334	27	4,328	8,963	0	--	--	--	(s)	12,456	--	--	--
2000	720	21	4,222	167	339	23	3,910	8,660	0	--	--	--	(s)	11,975	--	--	--
2001	672	21	4,338	249	913	27	2,917	8,444	0	--	--	--	(s)	11,377	--	--	--
2002	626	17	3,750	79	911	29	3,882	8,651	0	--	--	--	(s)	11,026	--	--	--
2003	681	15	3,047	467	988	0	3,790	8,292	0	--	--	--	(s)	10,914	--	--	--
2004	738	21	3,141	436	1,202	33	5,125	9,937	0	--	--	--	(s)	11,906	--	--	--
2005	719	17	4,921	193	1,048	21	4,956	11,138	0	--	--	--	(s)	11,379	--	--	--
2006	740	18	4,542	292	1,220	17	4,520	10,591	0	--	--	--	(s)	12,259	--	--	--
2007	712	19	4,300	392	1,075	22	4,476	10,265	0	--	--	--	(s)	12,281	--	--	--
2008	628	20	6,043	481	1,049	0	3,866	11,440	0	--	--	--	1	12,869	--	--	--
2009	431	18	4,608	369	997	0	3,175	9,149	0	--	--	--	2	11,200	--	--	--
2010	536	19	4,999	504	871	0	R 3,429	R 9,803	0	--	--	--	7	11,442	--	--	--
2011	503	22	5,711	517	876	6	R 3,502	R 10,612	0	--	--	--	29	12,352	--	--	--
2012	418	23	5,663	457	933	0	R 3,144	R 10,197	0	--	--	--	49	12,448	--	--	--
2013	181	22	5,731	475	973	0	R 2,959	R 10,138	0	--	--	--	69	12,519	--	--	--
2014	221	22	5,201	446	938	0	R 2,969	R 9,554	0	--	--	--	83	14,662	--	--	--
2015	235	20	4,419	506	R 1,703	0	R 3,074	R 9,702	0	--	--	--	147	14,892	--	--	--
2016	175	20	5,305	456	1,739	0	3,309	10,809	0	--	--	--	170	14,976	--	--	--

Trillion Btu																	
1960	0.2	14.2	7.1	0.9	2.7	0.2	6.6	17.5	0.0	1.0	NA	NA	NA	5.1	37.9	12.5	50.4
1965	0.1	59.4	9.0	0.7	2.3	0.1	8.1	20.1	0.0	1.1	NA	NA	NA	11.4	92.0	27.1	119.2
1970	0.1	61.2	8.1	0.9	2.4	0.3	25.6	37.4	0.1	1.3	NA	NA	NA	16.2	116.3	39.2	155.5
1975	2.6	53.4	18.1	1.6	2.3	0.6	17.6	40.3	0.1	1.9	NA	NA	NA	23.4	121.8	56.2	178.0
1980	13.1	39.5	20.8	2.7	1.6	1.0	16.1	42.2	0.2	8.9	NA	NA	NA	27.3	131.1	65.6	196.7
1985	38.8	17.3	10.5	1.8	2.1	0.2	18.5	33.1	0.2	10.4	0.0	NA	NA	28.9	128.6	66.1	194.7
1990	13.3	19.0	16.1	1.9	2.6	0.1	18.2	39.0	0.0	4.6	0.0	0.2	(s)	34.2	110.4	76.2	186.6
1995	13.1	28.8	20.9	2.7	2.1	0.4	23.0	49.1	0.0	5.0	0.0	0.2	(s)	40.9	137.2	90.4	227.6
1996	13.4	27.3	23.7	2.4	2.3	0.5	18.9	47.7	0.0	3.1	0.0	0.2	(s)	43.6	135.3	98.9	234.2
1997	13.7	28.6	24.6	1.2	2.4	0.1	20.6	48.9	0.0	3.2	0.0	0.2	(s)	45.2	139.8	99.4	239.2
1998	13.4	28.7	21.1	0.5	2.5	0.1	29.3	53.4	0.0	0.8	0.0	0.2	(s)	42.8	139.4	93.5	232.9
1999	13.2	27.5	24.2	0.4	1.7	0.2	28.3	54.8	0.0	0.8	0.0	0.2	(s)	42.5	139.0	93.1	232.2
2000	16.0	21.5	24.6	0.6	1.8	0.1	25.6	52.6	0.0	0.7	0.0	0.2	(s)	40.9	131.9	89.7	221.6
2001	14.7	21.4	25.2	0.9	4.8	0.2	19.1	50.2	0.0	1.3	0.0	0.2	(s)	38.8	126.6	83.6	210.2
2002	14.0	17.5	21.8	0.3	4.7	0.2	25.5	52.5	0.0	0.9	0.0	0.2	(s)	37.6	122.8	77.9	200.7
2003	15.2	15.5	17.7	1.7	5.1	0.0	24.9	49.4	0.0	0.9	0.0	0.2	(s)	37.2	118.5	76.2	194.7
2004	16.2	21.1	18.3	1.6	6.2	0.2	33.8	60.1	0.0	1.0	0.0	0.2	(s)	40.6	139.1	81.6	220.7
2005	15.9	17.4	28.6	0.7	5.4	0.1	32.7	67.6	0.0	1.0	0.0	0.2	(s)	38.8	140.9	76.4	217.3
2006	16.3	18.8	26.4	1.0	6.3	0.1	29.7	63.5	0.0	1.2	0.0	0.2	(s)	41.8	141.9	80.9	222.8
2007	15.3	19.9	24.9	1.4	5.5	0.1	29.4	61.3	0.0	1.3	1.6	0.2	(s)	41.9	141.5	79.7	221.1
2008	12.9	20.7	34.9	1.7	5.4	0.0	25.3	67.3	0.0	1.3	3.0	0.3	(s)	43.9	149.5	83.4	232.9
2009	8.7	18.3	26.6	1.3	5.1	0.0	20.8	53.8	0.0	1.3	3.0	0.2	(s)	38.2	123.6	73.5	197.1
2010	10.8	19.6	28.9	1.9	4.4	0.0	R 22.5	R 57.7	0.0	R 1.7	3.1	0.2	0.1	39.0	R 132.2	76.2	R 208.4
2011	10.0	22.0	33.0	2.0	4.4	(s)	R 23.0	62.4	0.0	R 0.3	3.1	0.2	0.3	42.1	R 140.4	84.7	R 225.1
2012	8.7	23.1	32.7	1.8	4.7	0.0	R 20.6	59.8	0.0	R 0.3	2.2	0.2	0.5	42.5	R 137.2	83.1	R 220.3
2013	4.3	22.7	33.1	1.8	4.9	0.0	R 19.2	59.0	0.0	R 0.3	0.0	0.2	0.7	42.7	R 130.0	83.9	R 213.9
2014	5.2	23.2	30.0	1.7	4.7	0.0	R 19.3	55.7	0.0	R 0.3	2.3	0.2	0.8	50.0	R 137.8	99.0	R 236.8
2015	5.4	21.3	25.5	1.9	8.6	0.0	R 20.0	56.0	0.0	R 0.3	2.7	0.2	1.4	50.8	R 138.1	98.2	R 236.4
2016	4.1	20.6	30.6	1.8	8.8	0.0	21.6	62.7	0.0	0.3	2.6	0.2	1.6	51.1	143.2	98.1	241.2

<sup>a</sup> Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>h</sup> Losses and co-products from the production of fuel ethanol.

<sup>i</sup> Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

<sup>j</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

<sup>k</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.